

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A process for purifying a phosphodiesterase 1 (PDE-1) from a cell including heating an extract of a cell formed from a solution including at least one divalent cation, to increase the specific activity of PDE-1 in the extract, wherein the concentration of the divalent cation is about [[10 to]] 50 mM.
2. (Original) A process according to claim 1 wherein the divalent cation is magnesium or calcium.
- 3-6. (Canceled)
7. (Original) A process according to claim 1 wherein the extract is heated to a temperature that permits depletion of phosphomonoesterase activity from the extract.
8. (Original) A process according to claim 7 wherein the extract is heated to less than 80°C.
9. (Original) A process according to claim 8 wherein the extract is heated to between about 45 and 75°C.
10. (Original) A process according to claim 9 wherein the extract is heated to about 60°C.
11. (Currently amended) A process for purifying PDE-1 from a barley cell including: releasing PDE-1 from the cell into a solution including about [[10 to]] 50 mM calcium and about [[10 to]] 50 mM magnesium to form an extract; and heating the extract to between about 45 to 70°C to increase the specific activity of PDE-1 in the extract.
12. (Currently amended) A process according to claim 11 wherein the extract is maintained in conditions for promoting solubilisation solvabilization of the phosphodiesterase in the extract prior to heating the extract.

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{PLLC}
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100

13. (Original) A process according to claim 12 wherein the extract is maintained at less than 10°C.

14. (Original) A process according to claim 13 wherein the extract is maintained at between 0 to about 4°C.

15. (Currently amended) A process according to claim 11 comprising the further step of:

~~utilising~~ utilizing chromatography to purify PDE-1 from the heated extract.

16. (Currently amended) A process according to claim 15 wherein anion exchange chromatography is ~~utilised~~ utilized to purify PDE-1 from the heated extract.

17-20. (Canceled)

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{LLC}
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100